Log Tank Service

# API Reference

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# Contents



# 1 Before You Start

Welcome to *Log Tank Service API Reference*. LTS collects log data from hosts and cloud services. By processing massive amounts of logs efficiently, securely, and in real time, LTS provides useful insights for you to optimize the availability and performance of cloud services and applications. It also helps you efficiently perform real-time decision-making, device O&M, and service trend analysis.

## Endpoints

An endpoint is the **request address** for calling an API. Endpoints vary depending on services and regions. For the endpoints of all services, contact the administrator.

## Concepts

- Domain

  A domain has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The domain should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.

- User

  An IAM user is created using an account to use cloud services. Each IAM user has its own identity credentials (password and access keys).

  The account name, username, and password will be required for API authentication.

- Region

  A region is a geographic area in which cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet, while AZs in different regions are isolated from each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.

- AZ

  An AZ comprises one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Compute, network, storage, and other resources in an AZ are logically divided into

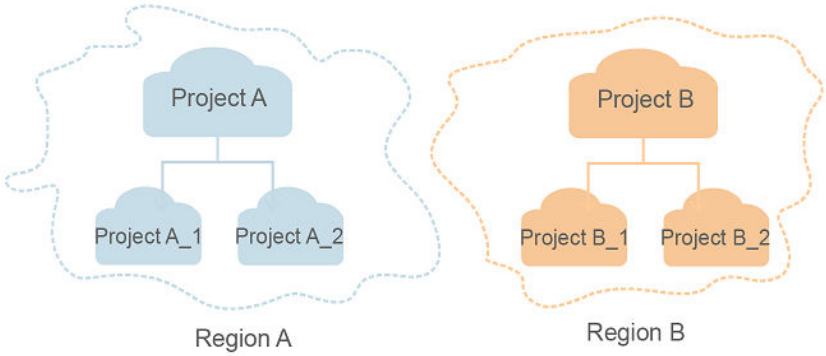
  

multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow you to build cross-AZ high-availability systems.

- Project

  Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each region, and subprojects can be created under each default project. Users can be granted permissions to access all resources in a specific project. For more refined access control, create sub-projects under a project and create resources in the sub-projects. Users can then be assigned permissions to access only specific resources in the sub-projects.

  **Figure 1-1** Project isolating model

- Enterprise project

  Enterprise projects group and manage resources across regions. Resources in enterprise projects are logically isolated from each other and can be directly transferred between the projects.

  For details about enterprise projects and how to obtain enterprise project IDs, see *Enterprise Management User Guide*.

# 2 API Overview

With the extension APIs provided by LTS,

you can use the basic LTS functions. For example, you can query API versions, create, query, and delete log groups or log streams.

**Table 2-1** API description

| Category | Description |
| --- | --- |
| Log group management | APIs for creating, querying, and deleting log groups |
| Log stream management | APIs for creating, querying, and deleting log streams |
| Log management | APIs for querying logs |
| Log transfer | APIs for transferring logs in one or more specified log streams to other services |

# 3 Calling APIs

## 3.1 Making an API Request

This section describes the structure of a REST API request, and uses the IAM API for obtaining a user token as an example to demonstrate how to call an API.

### Request URI

A request URI is in the following format:

**{URI-scheme} :// {Endpoint} / {resource-path} ? {query-string}**

Although a request URI is included in the request header, most programming languages or frameworks require the request URI to be transmitted separately.

- **URI-scheme**: protocol used to transmit requests. All APIs use HTTPS.
- **Endpoint**: domain name or IP address of the server bearing the REST service. The endpoint varies between services in different regions. It can be obtained from the administrator.
- **resource-path**: API access path. Obtain the path from the URI of an API. For example, the **resource-path** of the API for obtaining a user token is **/v3/auth/tokens**.
- **query-string**: query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of *Parameter name=Parameter value*. For example, **?limit=10** indicates that a maximum of 10 data records will be displayed.

NOTE

To simplify the URI display, each API is provided only with a **resource-path** and a request method. The **URI-scheme** of all APIs is **HTTPS**, and the endpoints of all APIs in the same region are identical.

### Request Methods

The HTTP protocol defines the following request methods that can be used to send a request to the server:

- **GET**: requests a server to return specified resources.
- **PUT**: requests a server to update specified resources.
- **POST**: requests a server to add resources or perform special operations.
- **DELETE**: requests a server to delete specified resources, for example, objects.
- **HEAD**: same as GET except that the server must return only the response header.
- **PATCH**: requests a server to update a part of a specified resource. If the resource does not exist, a new resource will be created.

For example, in the case of the API used to obtain a user token, the request method is **POST**. The request is as follows:

```
POST https://{{endpoint}}/v3/auth/tokens
```

## Request Header

You can also add additional header fields to a request, such as the fields required by a specified URI or HTTP method. For example, to request for the authentication information, add **Content-Type**, which specifies the request body type.

**Table 3-1** describes common request headers.

**Table 3-1** Common request headers

| Parameter | Description | Mandatory | Example Value |
| --- | --- | --- | --- |
| Host | Server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. The value is in the format of *Hostname*:*Port number*. If the port number is not specified, the default port is used. The default port number for **https** is **443**. | No<br>This field is mandatory for AK/SK authentication. | code.test.com<br>or<br>code.test.com:443 |

| Parameter | Description | Mandatory | Example Value |
| --- | --- | --- | --- |
| Content-Type | Type (or format) of the message body. The default value **application/json** is recommended. Other values of this field will be provided for specific APIs if any. | Yes | application/json |
| Content-Length | Length of the request body. The unit is byte. | No | 3495 |
| X-Project-Id | Project ID. Obtain the project ID by following the instructions in **Obtaining a Project ID**. | No | e9993fc787d94b6c886cbaa340f9c0f4 |
| X-Auth-Token | User token.<br>It is a response to the API for obtaining a user token. This API is the only one that does not require authentication.<br>After the request is processed, the value of **X-Subject-Token** in the response header is the token value. | No<br>This field is mandatory for token authentication. | The following is part of an example token:<br>MIIPAgYJKoZIhvcNAQc-Co...ggg1BBIINPXsidG9rZ |

NOTE

In addition to supporting token-based authentication, APIs also support authentication using access key ID/secret access key (AK/SK). During AK/SK-based authentication, an SDK is used to sign a request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request.

For details, see "AK/SK-based Authentication" in **Authentication**.

```
POST https://{{endpoint}}/v3/auth/tokens
Content-Type: application/json
```

## Request Body (Optional)

This part is optional. A request body is often sent in a structured format (for example, JSON or XML) as defined in the **Content-Type** header field. If the

request body contains full-width characters, these characters must be coded in UTF-8.

The request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the GET and DELETE methods.

In the case of the API used to obtain a user token, the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included. Replace the fields in bold with the actual values.

- **accountid**: ID of the account to which the IAM user belongs.
- **username**: username of the IAM user to be created.
- **email**: email address of the IAM user.
- **************: password of the IAM user.

NOTE

The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. For details, see Obtaining a User Token.

```
POST https://{{endpoint}}/v3/auth/tokens
Content-Type: application/json
X-Sdk-Date: 20240416T095341Z
Authorization: SDK-HMAC-SHA256 Access=**********, SignedHeaders=content-type;host;x-sdk-date,
Signature=**********

{
    "user": {
        "domain_id": "accountid",
        "name": "username",
        "password": "**********",
        "email": "email",
        "description": "IAM User Description"
    }
}
```

By now, all data required for an API request is available. You can send the request to call the API through **curl**, **Postman**, or coding. In the response to the API used to obtain a user token, **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

# 3.2 Authentication

You can use either of the following authentication methods when calling APIs:

- AK/SK-based authentication: Requests are authenticated by encrypting the request body using an AK/SK pair. AK/SK-based authentication is recommended because it is more secure than token-based authentication.
- Token-based authentication: Requests are authenticated using a token.

## AK/SK-based Authentication

NOTE

- AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.
- You can use the AK/SK in a permanent or temporary access key. The **X-Security-Token** field must be configured if the AK/SK in a temporary access key is used, and the field value is **security_token** of the temporary access key.

In AK/SK-based authentication, AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK-based authentication, you can use an AK/SK to sign requests based on the signature algorithm or use the signing SDK to sign requests.

NOTICE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

## Token-based Authentication

NOTE

- The validity period of a token is 24 hours. If a token is used for authentication, cache it to prevent frequent API calling.
- Ensure that the token is valid when you use it. Using a token that will soon expire may cause API calling failures.

A token is used to acquire temporary permissions. During API authentication using a token, the token is added to requests to get permissions for calling the API.

You can obtain a token by calling the Obtaining a User Token API. When you call the API, set **auth.scope** in the request body to **project**.

```
{
    "auth": {
        "identity": {
            "methods": [
                "password"
            ],
            "password": {
                "user": {
                    "name": "username",
                    "password": "********",
                    "domain": {
                        "name": "domainname"
                    }
                }
            }
        },
        "scope": {
```

```
        "project": {
          "name": "xxxxxxxx"
        }
      }
    }
}
```

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when calling other APIs. For example, if the token is **ABCDEFG....**, add **X-Auth-Token: ABCDEFG....** to a request as follows:

```
GET https://{{endpoint}}/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFG....
```

# 3.3 Response

After sending a request, you will receive a response, including a status code, response header, and response body.

## Status Code

A status code is a group of digits, ranging from 1xx to 5xx. It indicates the status of a request. For details, see **Status Codes**.

If status code 201 is returned for the API for , the request is successful.

## Response Header

Similar to a request, a response also has a header, for example, **Content-type**.

For the API for , the message header shown in **Figure 3-1** is returned.

**Figure 3-1** Response header

```
"X-Frame-Options": "SAMEORIGIN",
"X-IAM-ETag-id": "2562365939-d8f6f12921974cb097338ac11fceac8a",
"Transfer-Encoding": "chunked",
"Strict-Transport-Security": "max-age=31536000; includeSubdomains;",
"Server": "api-gateway",
"X-Request-Id": "af2953f2bcc67a42325a69a19e6c32a2",
"X-Content-Type-Options": "nosniff",
"Connection": "keep-alive",
"X-Download-Options": "noopen",
"X-XSS-Protection": "1; mode=block;",
"X-IAM-Trace-Id": "token_[redacted]_null_af2953f2bcc67a42325a69a19e6c32a2",
"Date": "Tue, 21 May 2024 09:03:40 GMT",
"Content-Type": "application/json; charset=utf8"
```

## Response Body (Optional)

The body of a response is often returned in structured format as specified in the **Content-type** header field. The response body transfers content except the response header.

For the API for , the following message body is returned. The following is part of the response body:

```
{
    "user": {
        "id": "c131886aec...",
        "name": "IAMUser",
        "description": "IAM User Description",
        "areacode": "",
        "phone": "",
        "email": "***@***.com",
        "status": null,
        "enabled": true,
        "pwd_status": false,
        "access_mode": "default",
        "is_domain_owner": false,
        "xuser_id": "",
        "xuser_type": "",
        "password_expires_at": null,
        "create_time": "2024-05-21T09:03:41.000000",
        "domain_id": "d78cbac1.....",
        "xdomain_id": "30086000.....",
        "xdomain_type": "",
        "default_project_id": null
    }
}
```

If an error occurs during API calling, an error code and a message will be displayed. The following shows an error response body.

```
{
    "error_msg": "Request body is invalid.",
    "error_code": "IAM.0011"
}
```

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

# 4 API Calling Examples

This section describes how to create a log group by calling APIs.

NOTE

The token obtained from Identity and Access Management (IAM) is valid for only 24 hours. If you want to use the same token for authentication, cache it to avoid frequent calling of the IAM API.

## Involved APIs

If you use a token for authentication, you must obtain the token and add **X-Auth-Token** to the request header when making an API call.

- IAM API used to obtain the token
- LTS API used to create a log group

## Procedure

1. Obtain the token by referring to **Making an API Request** .
2. Send **POST /v2/{project_id}/groups**.
3. Add **Content-Type** and **X-Auth-Token** to the request header.
4. Specify the following parameters in the request body:

```
POST /v2/{project_id}/groups
{
"log_group_name":"test001", //Log group name (The parameter is mandatory and its value is a string.)
"ttl_in_days":"7",  //Log expiration time (The value is an integer. Retain the default value.)
}
```

If the request is successful, information about the created log group is returned.

```
{
"log_group_id":"2a0089e4-3001-11e9-9e9d-286ed48xxx", //Log group ID (The value is a string.)
}
```

If the request fails, an error code and error description are returned. For details, see **Error Codes**.

# 5 APIs

All API URIs described in this chapter are case-sensitive.

## 5.1 Log Group Management

### 5.1.1 Creating a Log Group

#### Function

This API is used to create a log group.

#### URI

POST /v2/{project_id}/groups

**Table 5-1** Path Parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| project_id | Yes | String | Project ID. For details about how to obtain it, see **Obtaining a Project ID**. |

#### Request Parameters

**Table 5-2** Request header parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| X-Auth-Token | Yes | String | User token obtained from IAM. For details about how to obtain it, see **Obtaining a User Token**. |

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| Content-Type | Yes | String | Set this parameter to **application/json;charset=UTF-8**. |

**Table 5-3** Request body parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| log_group_name | Yes | String | Name of the log group to be created.<br>Configuration rules:<br>A name can contain 1 to 64 characters.<br>Use only letters, digits, underscores (_), hyphens (-), and periods (.). Do not start with a period or underscore or end with a period. |
| ttl_in_days | Yes | Integer | Log retention period. |
| tags | No | Array of **TagsBody** objects | Tag field information. |

**Table 5-4** TagsBody

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| key | No | String | Tag key. |
| value | No | String | Tag value. |

## Response Parameters

**Status code: 201**

**Table 5-5** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| log_group_id | String | ID of the log group to be created. |

**Status code: 400**

**Table 5-6** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 401**

**Table 5-7** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 403**

**Table 5-8** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 500**

**Table 5-9** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 503**

**Table 5-10** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

## Example Requests

Create a log group.

```
POST https://{endpoint}/v2/{project_id}/groups

/v2/{project_id}/groups
{
  log_group_name: "lts-group-01nh",
  ttl_in_days: 7
}
```

## Example Responses

**Status code: 201**

The request is successful and the log group has been created.

```
{
  "log_group_id" : "b6b9332b-091f-4b22-b810-264318d2d664"
}
```

**Status code: 400**

The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

**Status code: 401**

Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0102",
  "error_msg" : "Failed to create log group"
}
```

### Status Codes

| Status Code | Description |
| --- | --- |
| 201 | The request is successful and the log group has been created. |
| 400 | The request is invalid. Modify the request based on the description in **error_msg** before a retry. |
| 401 | Authentication failed. Check the token and try again. |
| 403 | The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500 | The server has received the request but encountered an internal error. |
| 503 | The requested service is unavailable. |

### Error Codes

See **Error Codes**.

## 5.1.2 Querying All Log Groups of an Account

### Function

This API is used to query all log groups of an account.

### URI

GET /v2/{project_id}/groups

**Table 5-11** Path Parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| project_id | Yes | String | Project ID. For details about how to obtain it, see **Obtaining a Project ID**. |

## Request Parameters

**Table 5-12** Request header parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| X-Auth-Token | Yes | String | User token obtained from IAM. For details about how to obtain it, see **Obtaining a User Token**. |
| Content-Type | Yes | String | Set this parameter to **application/json;charset=UTF-8**. |

## Response Parameters

**Status code: 200**

**Table 5-13** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| log_groups | Array of **LogGroup** objects | Log group information. |

**Table 5-14** LogGroup

| Parameter | Type | Description |
| --- | --- | --- |
| creation_time | Long | Time when a log group was created. |
| log_group_name | String | Log group name. |
| log_group_id | String | Log group ID. |
| ttl_in_days | Integer | Log retention period (days). |
| tag | Map<String,String> | Log group tags. |

**Status code: 401**

**Table 5-15** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |

| Parameter | Type | Description |
| --- | --- | --- |
| error_msg | String | Error message. |

**Status code: 403**

**Table 5-16** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 500**

**Table 5-17** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

## Example Requests

Query all log groups of an account.

```
POST https://{endpoint}/v2/{project_id}/groups

/v2/{project_id}/groups
```

## Example Responses

**Status code: 200**

The request is successful.

```
{
  "log_groups" : [ {
    "creation_time" : 1630547141853,
    "log_group_name" : "lts-group-01nh",
    "log_group_id" : "b6b9332b-091f-4b22-b810-264318d2d664",
    "ttl_in_days" : 7
  } ]
}
```

**Status code: 401**

Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
```

```
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description |
| --- | --- |
| 200 | The request is successful. |
| 401 | Authentication failed. Check the token and try again. |
| 403 | The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500 | The server has received the request but encountered an internal error. |
| 503 | The requested service is unavailable. |

## Error Codes

See **Error Codes**.

# 5.1.3 Deleting a Log Group

## Function

This API is used to delete a specified log group. If log transfer is enabled for log streams in a log group, you need to disable the log transfer before the deletion.

## URI

DELETE /v2/{project_id}/groups/{log_group_id}

**Table 5-18** Path Parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| project_id | Yes | String | Project ID. For details about how to obtain it, see **Obtaining a Project ID**. |
| log_group_id | Yes | String | Log group ID. For details about how to obtain it, see **Obtaining a Log Group ID**. |

## Request Parameters

**Table 5-19** Request header parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| X-Auth-Token | Yes | String | User token obtained from IAM. For details about how to obtain it, see **Obtaining a User Token**. |
| Content-Type | Yes | String | Set this parameter to **application/json;charset=UTF-8**. |

## Response Parameters

**Status code: 204**

The request is successful and the log group has been deleted.

**Status code: 400**

**Table 5-20** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 401**

**Table 5-21** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 403**

**Table 5-22** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 500**

**Table 5-23** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

## Example Requests

Delete a log group.

```
DELETE https://{endpoint}/v2/{project_id}/groups/{log_group_id}

/v2/{project_id}/groups/{log_group_id}
```

## Example Responses

**Status code: 400**

The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0201",
  "error_msg" : "The log group is not existed"
}
```

**Status code: 401**

Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
```

```
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0103",
  "error_msg" : "Failed to delete log group"
}
```

### Status Codes

| Status Code | Description |
| --- | --- |
| 204 | The request is successful and the log group has been deleted. |
| 400 | The request is invalid. Modify the request based on the description in **error_msg** before a retry. |
| 401 | Authentication failed. Check the token and try again. |
| 403 | The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500 | The server has received the request but encountered an internal error. |
| 503 | The requested service is unavailable. |

### Error Codes

See **Error Codes**.

# 5.2 Log Stream Management

## 5.2.1 Creating a Log Stream

### Function

This API is used to create a log stream in a specified log group.

## URI

POST /v2/{project_id}/groups/{log_group_id}/streams

**Table 5-24** Path Parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| project_id | Yes | String | Project ID. For details about how to obtain it, see **Obtaining a Project ID**. |
| log_group_id | Yes | String | ID of the log group to which the log stream to be created belongs. Generally, it contains 36 characters. |

## Request Parameters

**Table 5-25** Request header parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| X-Auth-Token | Yes | String | User token obtained from IAM. For details about how to obtain it, see **Obtaining a User Token**. |
| Content-Type | Yes | String | Set this parameter to **application/json;charset=UTF-8**. |

**Table 5-26** Request body parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| log_stream_name | Yes | String | Name of the log stream to be created. |
| ttl_in_days | No | Integer | Log retention period.<br>Minimum value: **1**<br>Maximum value: **365** |
| tags | No | Array of **TagsBody** objects | Tag field information. |

**Table 5-27** TagsBody

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| key | No | String | Tag key. |
| value | No | String | Tag value. |

## Response Parameters

**Status code: 201**

**Table 5-28** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| log_stream_id | String | ID of the log stream to be created. |

**Status code: 400**

**Table 5-29** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 401**

**Table 5-30** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 403**

**Table 5-31** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 500**

**Table 5-32** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

## Example Requests

Create a log stream.

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams

/v2/{project_id}/groups/{log_group_id}/streams
{
  "log_stream_name": "lts-stream-02kh"
}
```

## Example Responses

**Status code: 201**

The request is successful and the log stream has been created.

```
{
  "log_stream_id" : "c54dbc58-0fd8-48ed-b007-6d54981427a7"
}
```

**Status code: 400**

The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0009",
  "error_msg" : "Failed to validate the request body"
}
```

**Status code: 401**

Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0202",
  "error_msg" : "Failed to create Log stream"
}
```

### Status Codes

| Status Code | Description |
| --- | --- |
| 201 | The request is successful and the log stream has been created. |
| 400 | The request is invalid. Modify the request based on the description in **error_msg** before a retry. |
| 401 | Authentication failed. Check the token and try again. |
| 403 | The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500 | The server has received the request but encountered an internal error. |

### Error Codes

See **Error Codes**.

## 5.2.2 Querying All Log Streams in a Specified Log Group

### Function

This API is used to query information about all log streams in a specified log group.

### URI

GET /v2/{project_id}/groups/{log_group_id}/streams

**Table 5-33** Path Parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| project_id | Yes | String | Project ID. For details about how to obtain it, see **Obtaining a Project ID**. |
| log_group_id | Yes | String | ID of the log group whose log streams will be queried. Generally, it contains 36 characters. |

## Request Parameters

**Table 5-34** Request header parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| X-Auth-Token | Yes | String | User token obtained from IAM. For details about how to obtain it, see **Obtaining a User Token**. |
| Content-Type | Yes | String | Set this parameter to **application/json;charset=UTF-8**. |

## Response Parameters

**Status code: 200**

**Table 5-35** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| log_streams | Array of **LogStreamResBody** objects | Returned log stream information. |

**Table 5-36** LogStreamResBody

| Parameter | Type | Description |
| --- | --- | --- |
| creation_time | Long | Creation time. |
| log_stream_id | String | Log stream ID. |
| log_stream_name | String | Log stream name. |
| tag | Map<String,String> | Log stream tags. |
| filter_count | Integer | Number of filters. |
| is_favorite | Boolean | Whether to add a log stream to favorites. |

**Status code: 401**

**Table 5-37** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 403**

**Table 5-38** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 500**

**Table 5-39** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

## Example Requests

Query all log streams in a specified log group.

```
GET https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams

/v2/{project_id}/groups/{log_group_id}/streams
```

## Example Responses

**Status code: 200**

The request is successful.

```
{
  "log_streams" : [ {
    "creation_time" : 1630549842955,
    "log_stream_name" : "lts-stream-02kh",
    "log_stream_id" : "c54dbc58-0fd8-48ed-b007-6d54981427a7",
    "filter_count" : 0
  } ]
}
```

**Status code: 401**

Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0010",
  "error_msg" : "The system encountered an internal error"
}
```

## Status Codes

| Status Code | Description |
| --- | --- |
| 200 | The request is successful. |
| 401 | Authentication failed. Check the token and try again. |
| 403 | The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500 | The server has received the request but encountered an internal error. |

## Error Codes

See **Error Codes**.

# 5.2.3 Deleting a Log Stream

## Function

This API is used to delete a specified log stream from a specified log group. If log transfer is enabled for a log stream, you need to disable the log transfer before the deletion.

## URI

DELETE /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}

**Table 5-40** Path Parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| project_id | Yes | String | Project ID. For details about how to obtain it, see **Obtaining a Project ID**. |
| log_group_id | Yes | String | Log group ID. For details about how to obtain it, see **Obtaining a Log Group ID**. |
| log_stream_id | Yes | String | Log stream ID. For details about how to obtain it, see **Obtaining a Log Stream ID**. |

## Request Parameters

**Table 5-41** Request header parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| X-Auth-Token | Yes | String | User token obtained from IAM. For details about how to obtain it, see **Obtaining a User Token**. |
| Content-Type | Yes | String | Set this parameter to **application/json;charset=UTF-8**. |

## Response Parameters

**Status code: 204**

The request is successful and the log stream has been deleted.

**Status code: 400**

**Table 5-42** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 401**

**Table 5-43** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 403**

**Table 5-44** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 500**

**Table 5-45** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 503**

**Table 5-46** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| - | String | |
| _ | String | ServiceUnavailable: The requested service is unavailable. |

## Example Requests

Delete a log stream.

```
DELETE https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}

/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}
```

## Example Responses

**Status code: 400**

The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
{
  "error_code" : "LTS.0208",
  "error_msg" : "The log stream does not existed"
}
```

**Status code: 401**

Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0203",
  "error_msg" : "Failed to delete Log stream"
}
```

## Status Codes

| Status Code | Description |
| --- | --- |
| 204 | The request is successful and the log stream has been deleted. |
| 400 | The request is invalid. Modify the request based on the description in **error_msg** before a retry. |
| 401 | Authentication failed. Check the token and try again. |
| 403 | The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500 | The server has received the request but encountered an internal error. |
| 503 | The requested service is unavailable. |

### Error Codes

See **Error Codes**.

# 5.3 Log Management

## 5.3.1 Querying Logs

### Function

This API is used to query logs in a specified log stream.

### URI

POST /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

**Table 5-47** Path Parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| project_id | Yes | String | Project ID. For details about how to obtain it, see **Obtaining a Project ID**. |
| log_group_id | Yes | String | Log group ID. For details about how to obtain it, see **Obtaining a Log Group ID**. |
| log_stream_id | Yes | String | Log stream ID. For details about how to obtain it, see **Obtaining a Log Stream ID**. |

### Request Parameters

**Table 5-48** Request header parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| X-Auth-Token | Yes | String | User token obtained from IAM. For details about how to obtain it, see **Obtaining a User Token**. |
| Content-Type | Yes | String | Set this parameter to **application/json;charset=UTF-8**. |

**Table 5-49** Request body parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| start_time | Yes | String | Start time of the query (UTC, in ms).<br>**NOTE**<br>Maximum query time range: 30 days |
| end_time | Yes | String | End time of the query (UTC, in ms).<br>**NOTE**<br>Maximum query time range: 30 days |
| labels | No | Map<String,String> | Log filter criteria, which vary by log source. |
| keywords | No | String | Keyword used for log search. A keyword is a word between two adjacent delimiters, for example, **error**. |
| line_num | No | String | Sequence number of the final log event in the last query result. This parameter is not required for the first query, but is required for subsequent pagination queries. The value can be obtained from the response of the last query. The value of **line_num** should be between the values of **start_time** and **end_time**. |
| is_desc | No | Boolean | Whether the search order is descending or ascending. The default value is **false**, indicating that search results are displayed in ascending order. |
| search_type | No | String | The value is **init** (default value) for the first query, or **forwards** or **backwards** for a pagination query. This parameter is used together with **is_desc** for pagination queries. |

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| limit | No | Integer | Number of log events queried each time. The default value is **50** when this parameter is not set. You are advised to set this parameter to **100**. |
| highlight | No | Boolean | Whether the keyword is highlighted. The value can be **true** (highlighted; default) or **false** (not highlighted). |
| is_count | No | Boolean | Whether the number of log events is counted. The value can be **false** (not counted; default) or **true** (counted). |
| is_iterative | No | Boolean | Whether the log query is iterative. The value can be **false** (not iterative; default) or **true** (iterative). |

## Response Parameters

**Status code: 200**

**Table 5-50** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| logs | Array of **LogContents** objects | Log information. |
| count | Integer | Number of log events. |
| isQueryComplete | Boolean | Whether the query is complete. |

**Table 5-51** LogContents

| Parameter | Type | Description |
| --- | --- | --- |
| content | String | Raw log data. |
| line_num | String | Sequence number of a log line. |
| labels | Map<String,String> | Labels contained in a log event. The labels vary depending on log events. |

**Status code: 400**

**Table 5-52** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 401**

**Table 5-53** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 403**

**Table 5-54** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 500**

**Table 5-55** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

## Example Requests

- Query logs.

```
POST https://{endpoint}/v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

2020-07-25/14:44:42 this log is Error NO 1
2020-07-25/14:44:43 this log is Error NO 2
2020-07-25/14:44:44 this log is Error NO 3
2020-07-25/14:44:45 this log is Error NO 4
```

```
2020-07-25/14:44:46 this log is Error NO 5
2020-07-25/14:44:47 this log is Error NO 6
2020-07-25/14:44:48 this log is Error NO 7
2020-07-25/14:44:49 this log is Error NO 8
2020-07-25/14:44:50 this log is Error NO 9
2020-07-25/14:44:51 this log is Error NO 10
```

- For the first query:

```
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

{
  "start_time" : 1595659200000,
  "end_time" : 1595659500000,
  "labels" : {
    "hostName" : "ecs-kwxtest"
  },
  "keywords" : "log",
  "limit" : 10,
  "is_count" : true
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 6**, **NO 7**, and **NO 8** are the target log events):

```
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

{
  "start_time" : 1595659200000,
  "end_time" : 1595659500000,
  "labels" : {
    "hostName" : "ecs-kwxtest"
  },
  "keywords" : "log",
  "line_num" : "1595659490239433658",
  "is_desc" : "false",
  "search_type" : "forwards",
  "limit" : "3",
  "is_count" : true
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 8**, **NO 7**, and **NO 6** are the target log events):

```
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

{
  "start_time" : 1595659200000,
  "end_time" : 1595659500000,
  "labels" : {
    "hostName" : "ecs-kwxtest"
  },
  "keywords" : "log",
  "line_num" : "1595659490239433658",
  "is_desc" : "true",
  "search_type" : "backwards",
  "limit" : "3",
  "is_count" : true
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 2**, **NO 3**, and **NO 4** are the target log events):

```
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

{
  "start_time" : 1595659200000,
  "end_time" : 1595659500000,
  "labels" : {
```

```
    "hostName" : "ecs-kwxtest"
  },
  "keywords" : "log",
  "line_num" : "1595659490239433658",
  "is_desc" : "false",
  "search_type" : "backwards",
  "limit" : "3",
  "is_count" : true
}
```

- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 4**, **NO 3**, and **NO 2** are the target log events):

```
v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query

{
  "start_time" : 1595659200000,
  "end_time" : 1595659500000,
  "labels" : {
    "hostName" : "ecs-kwxtest"
  },
  "keywords" : "log",
  "line_num" : "1595659490239433658",
  "is_desc" : "true",
  "search_type" : "forwards",
  "limit" : "3",
  "is_count" : true
}
```

## Example Responses

**Status code: 200**

The request is successful.

- For the first query:

```
{
  "count" : 32,
  "logs" : [ {
    "content" : "2020-07-25/14:44:42 this <HighLightTag>log</HighLightTag> is Error NO 1",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
    "line_num" : "1595659490239433654"
  }, {
    "content" : "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",
    "labels" : {
      "hostName" : "ecs-kwxtest",
      "hostIP" : "192.168.0.156",
      "appName" : "default_appname",
      "containerName" : "CONFIG_FILE",
      "clusterName" : "CONFIG_FILE",
      "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
      "podName" : "default_procname",
      "clusterId" : "CONFIG_FILE",
      "nameSpace" : "CONFIG_FILE",
      "category" : "LTS"
    },
```

```
  "line_num" : "1595659490239433655"
}, {
  "content" : "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433656"
}, {
  "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433657"
}, {
  "content" : "2020-07-25/14:44:46 this <HighLightTag>log</HighLightTag> is Error NO 5",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433658"
}, {
  "content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
  },
  "line_num" : "1595659490239433659"
}, {
  "content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
  "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
```

```
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433660"
  }, {
   "content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433661"
  }, {
   "content" : "2020-07-25/14:44:50 this <HighLightTag>log</HighLightTag> is Error NO 9",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490839420574"
  }, {
   "content" : "2020-07-25/14:44:51 this <HighLightTag>log</HighLightTag> is Error NO 10",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659491839412667"
  } ]
}
```


- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 6**, **NO 7**, and **NO 8** are the target log events):


```
{
 "count" : 32,
 "logs" : [ {
  "content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
  "labels" : {
   "hostName" : "ecs-kwxtest",
   "hostIP" : "192.168.0.156",
   "appName" : "default_appname",
   "containerName" : "CONFIG_FILE",
   "clusterName" : "CONFIG_FILE",
   "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
```

```
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433659"
  }, {
   "content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433660"
  }, {
   "content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433661"
  } ]
}
```


- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 8**, **NO 7**, and **NO 6** are the target log events):


```
{
 "count" : 32,
 "logs" : [ {
   "content" : "2020-07-25/14:44:49 this <HighLightTag>log</HighLightTag> is Error NO 8",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433661"
  }, {
   "content" : "2020-07-25/14:44:48 this <HighLightTag>log</HighLightTag> is Error NO 7",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
```

```
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433660"
  }, {
   "content" : "2020-07-25/14:44:47 this <HighLightTag>log</HighLightTag> is Error NO 6",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433659"
  } ]
}
```


- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 2**, **NO 3**, and **NO 4** are the target log events):


```
{
 "count" : 32,
 "logs" : [ {
   "content" : "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433655"
  }, {
   "content" : "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433656"
  }, {
   "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",
   "labels" : {
    "hostName" : "ecs-kwxtest",
    "hostIP" : "192.168.0.156",
    "appName" : "default_appname",
    "containerName" : "CONFIG_FILE",
    "clusterName" : "CONFIG_FILE",
    "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
    "podName" : "default_procname",
    "clusterId" : "CONFIG_FILE",
```

```
    "nameSpace" : "CONFIG_FILE",
    "category" : "LTS"
   },
   "line_num" : "1595659490239433657"
 } ]
}
```


- For a pagination query (Assume that the search starts from the log event containing **NO 5**. Log events containing **NO 4**, **NO 3**, and **NO 2** are the target log events):


```
{
 "count" : 32,
 "logs" : [ {
  "content" : "2020-07-25/14:44:45 this <HighLightTag>log</HighLightTag> is Error NO 4",
  "labels" : {
   "hostName" : "ecs-kwxtest",
   "hostIP" : "192.168.0.156",
   "appName" : "default_appname",
   "containerName" : "CONFIG_FILE",
   "clusterName" : "CONFIG_FILE",
   "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
   "podName" : "default_procname",
   "clusterId" : "CONFIG_FILE",
   "nameSpace" : "CONFIG_FILE",
   "category" : "LTS"
  },
  "line_num" : "1595659490239433657"
 }, {
  "content" : "2020-07-25/14:44:44 this <HighLightTag>log</HighLightTag> is Error NO 3",
  "labels" : {
   "hostName" : "ecs-kwxtest",
   "hostIP" : "192.168.0.156",
   "appName" : "default_appname",
   "containerName" : "CONFIG_FILE",
   "clusterName" : "CONFIG_FILE",
   "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
   "podName" : "default_procname",
   "clusterId" : "CONFIG_FILE",
   "nameSpace" : "CONFIG_FILE",
   "category" : "LTS"
  },
  "line_num" : "1595659490239433656"
 }, {
  "content" : "2020-07-25/14:44:43 this <HighLightTag>log</HighLightTag> is Error NO 2",
  "labels" : {
   "hostName" : "ecs-kwxtest",
   "hostIP" : "192.168.0.156",
   "appName" : "default_appname",
   "containerName" : "CONFIG_FILE",
   "clusterName" : "CONFIG_FILE",
   "hostId" : "9787ef31-fd7b-4eff-ba71-72d580f11f55",
   "podName" : "default_procname",
   "clusterId" : "CONFIG_FILE",
   "nameSpace" : "CONFIG_FILE",
   "category" : "LTS"
  },
  "line_num" : "1595659490239433655"
 } ]
}
```


**Status code: 400**

The request is invalid. Modify the request based on the description in **error_msg** before a retry.


```
{
 "error_code" : "LTS.0009",
 "error_msg" : "Failed to validate the request body"
}
```

**Status code: 401**

Authentication failed. Check the token and try again.

```
{
  "error_code" : "LTS.0003",
  "error_msg" : "Invalid token"
}
```

**Status code: 403**

The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
{
  "error_code" : "LTS.0202",
  "error_msg" : "Failed to query lts log"
}
```

## Status Codes

| Status Code | Description |
| --- | --- |
| 200 | The request is successful. |
| 400 | The request is invalid. Modify the request based on the description in **error_msg** before a retry. |
| 401 | Authentication failed. Check the token and try again. |
| 403 | The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500 | The server has received the request but encountered an internal error. |
| 503 | The requested service is unavailable. |

## Error Codes

See **Error Codes**.

# 5.4 Log Transfer

# 5.4.1 Creating a Log Transfer Task (Old Version)

## Function

This API is used to transfer logs of one or more specified log streams to Object Storage Service (OBS).

## URI

POST /v2/{project_id}/log-dump/obs

**Table 5-56** Path Parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| project_id | Yes | String | Project ID. For details about how to obtain it, see **Obtaining a Project ID**. |

## Request Parameters

**Table 5-57** Request header parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| X-Auth-Token | Yes | String | User token obtained from IAM. For details about how to obtain it, see **Obtaining a User Token**. |
| Content-Type | Yes | String | Set this parameter to **application/json;charset=UTF-8**. |

**Table 5-58** Request body parameters

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| log_group_id | Yes | String | Log group ID. |
| log_stream_ids | Yes | Array of strings | IDs of log streams whose logs are to be periodically transferred to OBS. You can specify one or more log streams. |
| obs_bucket_name | Yes | String | OBS bucket name. |

| Parameter | Mandatory | Type | Description |
| --- | --- | --- | --- |
| type | Yes | String | For scheduled transfer, this parameter must be set to **cycle**. |
| storage_format | Yes | String | Whether the logs are stored in raw or JSON format. The default value is **RAW**.<br>Minimum characters: 3<br>Maximum characters: 4 |
| switch_on | No | Boolean | Whether log transfer is enabled. The value is **true** (default) or **false**. |
| prefix_name | No | String | File name prefix of the log files transferred to an OBS bucket. |
| dir_prefix_name | No | String | Custom path to store the log files. |
| period | Yes | Integer | Length of the log transfer interval. |
| period_unit | Yes | String | Unit of the log transfer interval.> The log transfer interval is specified by the combination of the values of **period** and **period_unit** and must be set to one of the following: **2min**, **5min**, **30min**, **1hour**, **3hour**, **6hour**, or **12hour**. |

## Response Parameters

**Status code: 201**

**Table 5-59** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| log_dump_obs_id | String | Transfer task ID. |

**Status code: 400**

**Table 5-60** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 403**

**Table 5-61** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

**Status code: 500**

**Table 5-62** Response body parameters

| Parameter | Type | Description |
| --- | --- | --- |
| error_code | String | Error code. |
| error_msg | String | Error message. |

## Example Requests

Create a log transfer task.

```
POST https://{endpoint}/v2/{project_id}/log-dump/obs

/v2/{project_id}/log-dump/obs
{
  "log_group_id": "d9dba9f3-xxxx-48bd-xxxx-xxxxa24a8053",
  "log_stream_ids": ["45e7f609-xxxx-4cd3-835b-xxxx4a124718"],
  "obs_bucket_name": "lts-test",
  "type": "cycle",
  "storage_format": "RAW",
  "switch_on": "true",
  "prefix_name": "fileprefixname",
  "dir_prefix_name": "dirprefixname",
  "period": 5,
  "period_unit": "min"
}
```

## Example Responses

**Status code: 201**

The request is successful.

```
{
  "log_dump_obs_id" : "45fdc36b-xxxx-4567-xxxx-559xxxxdf968"
}
```

**Status code: 400**

The request is invalid. Modify the request based on the description in **error_msg** before a retry.

```
BadRequest: The request is invalid. Modify the request based on the description in **error_msg** before a retry.
{
  "error_code": "LTS.0007",
  "error_msg": "The request body format must be json"
}
```

**Status code: 403**

The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications.

```
{
  "error_code" : "LTS.0001",
  "error_msg" : "Invalid projectId"
}
```

**Status code: 500**

The server has received the request but encountered an internal error.

```
InternalServerError: The server has received the request but encountered an internal error.
{
  "error_code": "LTS.0010",
  "error_msg": "Internal Server Error"}
```

## Status Codes

| Status Code | Description |
| --- | --- |
| 201 | The request is successful. |
| 400 | The request is invalid. Modify the request based on the description in **error_msg** before a retry. |
| 403 | The request is rejected.The server has received the request and understood it, but refuses to respond to it. The client should not repeat the request without modifications. |
| 500 | The server has received the request but encountered an internal error. |
| 503 | The requested service is unavailable. |

## Error Codes

See **Error Codes**.

# 6 Permissions Policies and Supported Actions

This section describes fine-grained permissions management for your LTS. If your account does not require IAM users, you can skip this section.

By default, new IAM users do not have permissions assigned. You need to add a user to one or more groups, and attach permissions policies or roles to these groups. Users inherit permissions from the groups to which they are added and can perform specified operations on cloud services based on the permissions.

You can grant users permissions by using roles and policies. Roles are a type of coarse-grained authorization mechanism that defines service-level permissions based on user responsibilities. Policies define API-based permissions for operations on specific resources under certain conditions, allowing for more fine-grained, secure access control of cloud resources.

**NOTE**

You can use policies to allow or deny access to specific APIs.

An account has all of the permissions required to call all APIs, but IAM users must be assigned the required permissions. The permissions required for calling an API are determined by the actions supported by the API. Only users who have been granted permissions allowing the actions can call the API. For example, if an IAM user queries log metrics using an API, the user must have been granted permissions that allow the **aom:metric:get** action.

## Supported Actions

LTS provides system-defined policies that can be directly used. You can also create custom policies and use them to supplement system-defined policies, implementing more refined access control. Operations supported by policies are specific to APIs. The following are basic concepts related to policies:

- Permissions: Statements in a policy that allow or deny certain operations.
- APIs: REST APIs that can be called by users with the required permissions.
- Actions: Specific operations that are allowed or denied.

- Related actions: Actions on which a specific action depends to take effect. When assigning permissions for the action to a user, you also need to assign permissions for the related actions.
- IAM or enterprise projects: Type of projects for which permissions can be granted. Policies that contain actions for both IAM and enterprise projects take effect for both IAM and Enterprise Management. Policies that only contain actions for IAM projects take effect only for IAM.

NOTE

The check mark (√) and cross symbol (x) respectively indicate that a permission can be or cannot be granted for the corresponding type of projects.

| Permission | API | Action | Related Action | IAM Project | Enterprise Project |
|---|---|---|---|---|---|
| Creating a log group | POST /v2/{project_id}/groups | lts:groups:create | - | √ | x |
| Querying all log groups of an account | GET /v2/{project_id}/groups | lts:groups:list | - | √ | x |
| Deleting a log group | DELETE /v2/{project_id}/groups/{log_group_id} | lts:groups:delete | - | √ | x |
| Creating a log stream | POST /v2/{project_id}/groups/{log_group_id}/streams | lts:topics:create | - | √ | √ |
| Querying all log streams in a specified log group | GET /v2/{project_id}/groups/{log_group_id}/streams | lts:topics:list | - | √ | √ |
| Deleting a log stream | DELETE /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id} | lts:topics:delete | - | √ | √ |

| Permission | API | Action | Related Action | IAM Project | Enterprise Project |
|---|---|---|---|---|---|
| Querying logs | POST /v2/{project_id}/groups/{log_group_id}/streams/{log_stream_id}/content/query | lts:logs:list | - | √ | x |
| Transferring logs to OBS | POST /v2/{project_id}/log-dump/obs | lts:transfers:create | obs:bucket:CreateBucket<br>obs:bucket:HeadBucket<br>obs:bucket:GetLifecycleConfiguration<br>obs:bucket:PutLifecycleConfiguration<br>obs:bucket:GetBucketAcl<br>obs:bucket:PutBucketAcl | √ | x |

# 7 Appendix

## 7.1 Status Codes

Table 1 lists the status codes.

**Table 7-1** Status codes

| Status Code | Returned Value | Description |
| --- | --- | --- |
| 200 | OK | The normal response for the GET or PUT operation is returned. |
| 201 | OK | The POST request is successful and the query result is returned. |
| 204 | No Content | The normal response for the DELETE operation is returned. |
| 400 | Bad Request | Request error. |
| 401 | Unauthorized | The authentication information is not provided or is incorrect. |
| 403 | Forbidden | You are forbidden to access the page requested. |
| 404 | Not Found | The server failed to find the requested resource. |
| 408 | Request Timeout | The request timed out. |
| 429 | Too Many Requests | The number of requests exceeded the upper limit. |
| 500 | Internal Server Error | The server encountered an unexpected condition which prevented it from fulfilling the request. |
| 503 | Service Unavailable | The service is currently unavailable. |

# 7.2 Error Codes

| Status Code | Error Codes | Error Message | Description | Solution |
|---|---|---|---|---|
| 400 | LTS.0009 | Failed to validate the request body. | Parameter verification failed. | Modify request parameters based on the returned error information and try again. |
| 400 | LTS.0010 | The system encountered an internal error | An internal error occurred | An internal error occurred in LTS. Contact technical support. |
| 400 | LTS.0201 | The log group is not existed | Failed to create the log stream because the associated log group does not exist. | Check whether the ID of the log group is correct. |
| 400 | LTS.0208 | Log stream is associated by transfer | The log stream does not exist. | Check whether the log stream to be deleted exists. |
| 400 | LTS.0301 | '*' and '?' not allowed as first character | Asterisks (*) and question marks (?) are placed in the middle or at the end of a keyword. | Check the keywords field based on the error information. |
| 400 | LTS.2001 | Failed to create alarm rule | Creation error. | Check whether the project ID is correct. |
| 400 | LTS.2002 | Failed to delete alarm rule | Deletion error. | Check whether the database or network connection is normal. |
| 400 | LTS.2003 | Failed to update alarm rule | Modification error. | Abnormal connection to the database. Check the database instance status. |

| Status Code | Error Codes | Error Message | Description | Solution |
|---|---|---|---|---|
| 400 | LTS.2004 | The size of alarm rule has exceed the limit: 200 | The number of alarm rules cannot exceed 200. | Delete existing alarm rules that are no longer used. |
| 400 | LTS.2005 | The parameter is incorrect | Incorrect parameter. | Correct the parameter based on the returned error information. |
| 400 | LTS.2006 | Alarm rule name has already exist | The alarm rule name already exists. | Use another alarm rule name. |
| 400 | LTS.2007 | Alarm rule not exist | The alarm rule does not exist. | Check whether the alarm rule exists. |
| 400 | LTS.2008 | Find Alarm rule failed | Failed to query the alarm rule. | Check whether the database or network connection is normal. |
| 400 | LTS.2009 | User must have SMN service authority | You must have the permissions on SMN. | Acquire the permissions on SMN. |
| 400 | LTS.2010 | Topics cannot be empty | The SMN topic cannot be empty. | Check whether the SMN topic is empty. |
| 400 | LTS.2011 | Alarm rule invalid query frequency or invalid cron expression | Invalid query frequency or cron expression. | Check the query frequency or cron expression. |
| 400 | LTS.2012 | The query time range cannot be larger than 1 hour when the query frequency is less than every 5 minutes. | The query time range cannot be larger than 1 hour when the query frequency is less than every 5 minutes. | Check the query time range and query frequency. |

| Status Code | Error Codes | Error Message | Description | Solution |
| --- | --- | --- | --- | --- |
| 400 | LTS.2013 | Send Subject Error | Incorrect SMN topic. | Correct the topic based on the error information. |
| 403 | LTS.0003 | No permission. | Invalid role | Grant the LTS service permission. |
| 403 | LTS.0011 | Invalid projectId | Invalid project ID. | Ensure that the project ID in the URL is the same as that in the token. |
| 500 | LTS.0107 | Current user does not have the permission to operate this group | Failed to update the log group. | Abnormal connection to the database. Check the database instance status. |

# 7.3 Obtaining a Project ID

## Scenario

A project ID is required for some URLs when an API is called. Obtain a project ID using either of the following methods:

- **Obtaining a Project ID by Calling an API**
- **Obtaining a Project ID on the Console**

## Obtaining a Project ID by Calling an API

You can obtain the project ID by calling the API used to **Querying Project Information**.

The API for obtaining a project ID is **GET https://*{Endpoint}*/v3/projects**, where *{Endpoint}* indicates the IAM endpoint. You can obtain the IAM endpoint from the administrator. For details about API authentication, see **Authentication**.

The following is an example response. The value of **id** is the project ID.

```
{
    "projects": [
        {
            "domain_id": "65382450e8f64ac0870cd180d14e684b",
            "is_domain": false,
            "parent_id": "65382450e8f64ac0870cd180d14e684b",
            "name": "project_name",
            "description": "",
            "links": {
                "next": null,
```

```
            "previous": null,
            "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
        },
        "id": "a4a5d4098fb4474fa22cd05f897d6b99",
        "enabled": true
    }
  ],
  "links": {
    "next": null,
    "previous": null,
    "self": "https://www.example.com/v3/projects"
  }
}
```

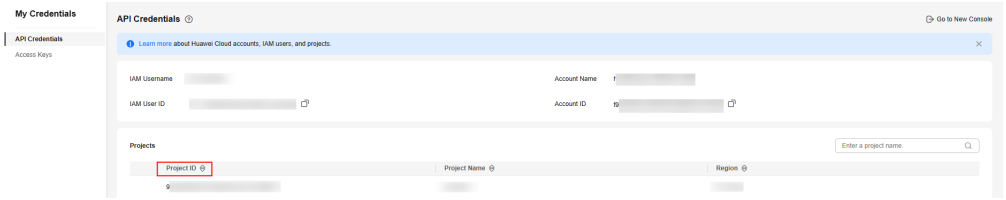

## Obtaining a Project ID on the Console

A project ID is required for some URLs when APIs are called. Therefore, obtain a project ID on the console in advance.

The steps are as follows:

1. Log in to the console.
2. Hover over the username in the upper right corner and choose **My Credentials** from the drop-down list.
3. On the **API Credentials** page, view project IDs in the project list.

**Figure 7-1** Checking project IDs

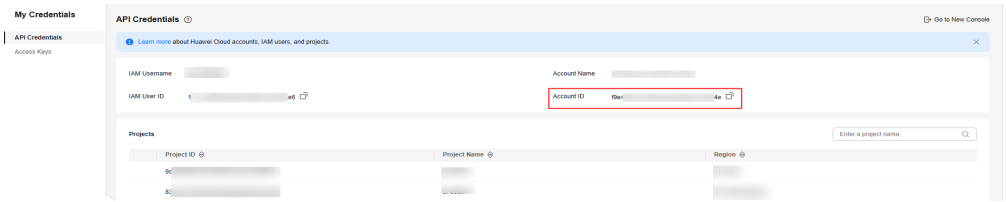



# 7.4 Obtaining an Account ID

An account ID is required for some URLs when APIs are called. Therefore, obtain an account ID on the console in advance. The steps are as follows:

1. Log in to the console.
2. Hover over the username in the upper right corner and choose **My Credentials** from the drop-down list.
3. On the **API Credentials** page, view **Account ID**.

**Figure 7-2** Viewing the account ID



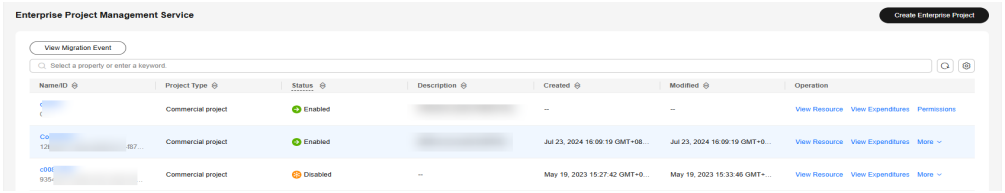

  

# 7.5 Obtaining an Enterprise Project ID

When making API calls, you may need to enter an enterprise project ID in some URIs. You can obtain it on the **Enterprise** page.

1. Log in to the console.
2. Hover your cursor over **Enterprise** in the upper right corner and choose **Project Management**.
3. In the **Name/ID** column, copy the target enterprise project ID or click the target enterprise project name to view more details.

**Figure 7-3** Obtaining an enterprise project ID

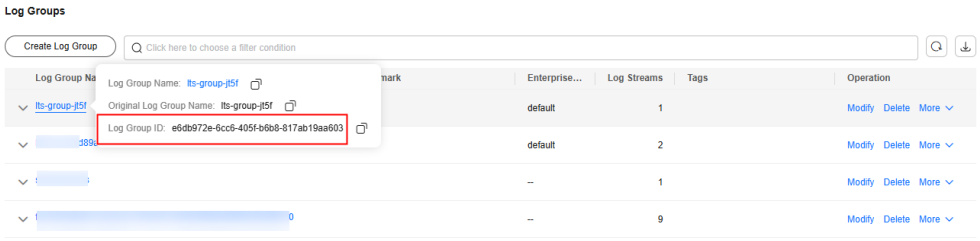



# 7.6 Obtaining Log Group and Log Stream IDs

When making API calls, you may need to enter log group and log stream IDs in some URIs. You can obtain it on the **Log Management** page.

1. Log in to the LTS console.
2. On the **Log Management** page, move the cursor to a log group name to view the log group ID.

**Figure 7-4** Viewing a log group ID




3. Click ⌄ of the target log group and move the cursor to a log stream name to view the log stream ID.

**Figure 7-5** Viewing a log stream ID